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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/797,901	03/10/2004	Fred A. Brown	917/198	3383
2101 BROMBERG	7590 12/11/2007 & SUNSTEIN LLP		EXAMINER	
125 SUMMER	STREET		LAM, THANH	
BOSTON, MA	. 02110-1618		ART UNIT	PAPER NUMBER
¢			2834	
			MAIL DATE	DELIVERY MODE
			12/11/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		$\mathcal{I}\mathcal{H}$				
	Application No.	Applicant(s)				
Office Action Commence	10/797,901	BROWN, FRED A.				
Office Action Summary	Examiner	Art Unit				
	Thanh Lam	2834				
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet w	ith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a included in the period for reply is specified above, the maximum statutory perion is Failure to reply within the set or extended period for reply will, by stated any reply received by the Office later than three months after the material patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a reply within the statutory minimum of thi od will apply and will expire SIX (6) MOI tute, cause the application to become A	reply be timely filed  rty (30) days will be considered timely.  NTHS from the mailing date of this communication.  BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 13	September 2007.					
2a)⊠ This action is <b>FINAL</b> . 2b)□ T	∑ This action is FINAL. 2b)  This action is non-final.					
3) Since this application is in condition for allow	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice unde	er <i>Ex parte Quayle</i> , 1935 C.[	D. 11, 453 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-25 is/are pending in the applicati	☑ Claim(s) <u>1-25</u> is/are pending in the application.					
· · · · · · · · · · · · · · · · · · ·	4a) Of the above claim(s) is/are withdrawn from consideration.					
·	Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-25</u> is/are rejected.	• • • • • • • • • • • • • • • • • • • •					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and	d/or election requirement.					
Application Papers						
9) ☐ The specification is objected to by the Exam						
10) The drawing(s) filed on is/are: a) a						
Applicant may not request that any objection to t						
Replacement drawing sheet(s) including the corr	·					
11) The oath or declaration is objected to by the	examiner. Note the attache	d Office Action of form PTO-152.				
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreing</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority document</li> </ul>		§ 119(a)-(d) or (f).				
2. Certified copies of the priority docume	ents have been received in A	Application No				
3. Copies of the certified copies of the p		received in this National Stage				
application from the International Bure  * See the attached detailed Office action for a l	,	received				
See the attached detailed Office action for a r	ist of the certified copies hol	received.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview	Summary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No	s)/Mail Date				
<ol> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/N Paper No(s)/Mail Date</li> </ol>	6) Other:	nformal Patent Application (PTO-152)				

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### **DETAILED ACTION**

## Response to Arguments

First of all, the examiner would like to make a note that during patent examination, the pending claims must be "given the broadest reasonable interpretation consistent with the specification." Applicant always has the opportunity to amend the claims during prosecution and broad interpretation by the examiner reduces the possibility that the claim, once issued, will be interpreted more broadly than is justified. In re Prater, 162 USPQ 541,550 - 51 (CCPA 1969). In additional although "interpretation of the claim terms must be consistent with the specification, with claim language being read in light of the specification" in this case, the phase "the movable support member being movable relative to the shaft" can be defined or interpreted as the movement of the support member has only a relationship with the shaft. It does not means that the support member has to be move differently or at the same rate with respect to the shaft and the broaden phase itself ( relative to) as recited in the claimed language can not be directly link to whole meaning as disclosed in the specification. Therefore, the cited reference Leuthold read the recited claimed language in the claim 1.

In response to applicant's argument that Slack fails to teach such a motor Rather, Slack teaches a motor having a stationary support member (i.e., it is not moveable).

The Examiner submit that Slack teaches "the ball is caused to bear against the shaft by <u>resilient</u> means in the form of a dished compression washer, or Belleville washer, 32 contained between the thrust plate 28 (which has shoulders 33 to locate it in the hole in the washer) and an end cover 34 secured to the body by screws 35." see

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page 2, left col. lines 82-88. The term "resilient" as underlined above can be defined as a movement. Therefore the support member (31) actually moves with relative to the shaft (16). Therefore, the cited reference Slack read the recited claimed language.

#### Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-4,6-25, are rejected under 35 U.S.C. 102(b) as being anticipated by Leuthold et al. (US 5,710,678).

Regarding claims 1, 20, Leuthold et al. disclose a motor comprising: a stator (50); a rotor having a shaft (20); a sleeve bearing (80) in contact with the rotor shaft, the sleeve bearing being fixedly secured to the stator; and a movable support member (160) axially supporting the shaft, the movable support member being movable relative to the shaft.

Regarding claims 2, 13, Leuthold et al. disclose a housing at least in part encasing the stator, the housing forming a recess (where the ball 160 seat) for supporting the movable support member.

Regarding claims 3, 17, Leuthold et al. disclose the movable support member is a spherical member.

Regarding claims 4, 21, Leuthold et al. disclose the spherical member is a ball bearing.

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Regarding claim 6, Leuthold et al. disclose a retaining washer about the shaft.

Regarding claims 7, Leuthold et al. disclose the shaft has a lower end, the retaining washer being located between the lower end of the shaft and the sleeve bearing.

Regarding claims 8, 23, Leuthold et al. disclose a rotor hub (22) coupled to the shaft, the rotor hub being spaced from the sleeve bearing.

Regarding claims 9,16,24 Leuthold et al. disclose the rotor includes a rotor magnet (60), the rotor magnet being oriented with the stator to bias the rotor toward the movable support member.

Regarding claims 10, Leuthold et al. disclose the movable support member contacts the shaft when the motor is right side up and when the motor is upside down.

Regarding claims 11,19, 25, Leuthold et al. disclose the center of gravity of the rotor coincides with an opening in the sleeve bearing that accommodates the shaft.

Regarding claims 12, Leuthold et al. disclose a motor comprising: a stator; a rotor having a shaft that is rotatably coupled with the stator; and a movable support member (160) supporting the weight of the rotor, the movable support member being movable relative to the shaft.

Regarding claims 14, Leuthold et al. disclose a sleeve bearing rotatably coupled with the shaft.

Regarding claims 15, Leuthold et al. disclose the rotor includes blades for

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moving air.

Regarding claims 18, Leuthold et al. disclose the stator has DC commutation circuitry.

Regarding claims 22, Leuthold et al. disclose a housing encasing the stator, the housing forming a recess for supporting the movable means for axially supporting.

3. Claims 1, 5 and 12 are rejected under 35 U.S.C. 102(b) as being anticipated by Slack et al. (GB 2083953 A).

Regarding claims 1 and 12, Slack et al. disclose a motor comprising: a stator (14); a rotor (22) having a shaft (18); a sleeve bearing (17) in contact with the rotor shaft, the sleeve bearing being fixedly secured to the stator; and a movable support member (31) axially supporting the shaft or the weight of the rotor, the movable support member being movable relative to (<u>resilient</u> as reason in the argument) the shaft.

Regarding claim 5, Slack disclose including a housing (the integral of 12 and 28) at least in part encasing the stator (14), the housing forming a recess (just the conical groove at bottom of the recess 30 at shown in fig. 1) for supporting the movable support member, wherein the moveable support member is a spherical member and the recess has a depth less than a radius of the spherical member.

#### Conclusion

4. This is a RCE of applicant's earlier Application No. 10/797,901. All claims are drawn to the same invention claimed in the earlier application and could have been finally rejected on the grounds and art of record in the next Office action if they had

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been entered in the earlier application. Accordingly, **THIS ACTION IS MADE FINAL** even though it is a first action in this case. See MPEP § 706.07(b). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no, however, event will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanh Lam whose telephone number is (571) 272-2026. The examiner can normally be reached on t-f 9-7.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren E. Schuberg can be reached on (571) 272-2044. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thanh Lam
Primary Examiner

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